

What is Claimed is:

1. A data transmission cable for connection to mobile devices, comprising at least two insulated conductors twisted into a pair, in which the pair is enclosed by an electric shield which is surrounded by a jacket made of an insulating material, **characterized in that**

the two conductors (1, 2) which are insulated by a solid unfoamed material are twisted together with two strands (4, 5) made of a foamed insulating material to form a core (S),

the core (S) is enclosed by a first foil (6) made of a foamed insulating material, and

the shield (7) which is formed around the first foil (6) comprises at least one metal strip made of an electrically well conducting material that is formed into a closed tubular sleeve.

2. A cable as claimed in claim 1, **characterized in that** the metal strip is made of copper.

3. A cable as claimed in claim 1, **characterized in that** the metal strip is made of tin-plated copper.

4. A cable as claimed in claim 1, **characterized in that** the shield (7) comprises two layers of metal strips (8, 9), which are made as tubular hollow strands braided from wires and are subsequently pressed into metal strips, and

the inner metal strip (8) is wound around the first foil (6) made of a foamed insulating material with a gap (10), while the outer metal strip (9) is wound around the inner metal strip (8) also with a gap (1) staggered with respect to, and hereby covering, the gap (10) of the inner metal strip (8).

5. A cable as claimed in claim 4, **characterized in that** a stranding of tin-plated copper wires (12) is placed over the outer metal strip (9) with $\geq 90\%$ coverage.

6. A cable as claimed in claim 1, **characterized in that** the shield (7) comprises three layers, with an inner metal strip (15) that has a metal layer and an insulating layer, an outer metal strip (17) that is made of two metal layers and an insulating layer disposed therebetween, and a stranding made of tin-plated copper wires (19) arranged over the outer metal strip (16) with $\geq 90\%$ coverage, and

the inner metal strip (15) with the metal layer facing outward is wound around the first foil (6) made of a foamed insulating material with a gap (16) while the outer metal strip (17) is wound around the inner metal strip (15) also with a gap (18) staggered with respect to, and thereby covering, the gap (16) of the inner metal strip (15).

7. A cable as claimed in claim 1, **characterized in that** at least two cores (S) enclosed by a first foil (6) made of a foamed insulating material are twisted together with at least two second strands (20) made of a foamed insulating material to form a unit which is enclosed by a second foil (22) made of a foamed insulating material, and

the shield (7) is placed over the second foil (22).

8. A cable as claimed in claim 6, **characterized in that** at least two cores (S) enclosed by a first foil (6) made of a foamed insulating material are twisted together with at least two second strands (20) made of a foamed insulating material to form a unit which is enclosed by a second foil (22) made of a foamed insulating material,
the shield (7) is placed over the second foil (22).

9. A cable as claimed in claim 6, **characterized in that** the metal layers of the metal strips (15, 17) used for the shield (7) are made of copper.

10. A cable as claimed in claim 6, **characterized in that** the insulating material of the metal strips (15, 17) of the shield (7) are made of polyester.

11. A cable as claimed in claim 1, **characterized in that** the strands (4, 5, 20) of a foamed insulating material are made of polyethylene or polypropylene.

12. A cable as claimed in claim 1, **characterized in that** the foamed foils (6, 22) are made of polytetrafluoroethylene.

13. A cable as claimed in claim 1, **characterized in that** the two metal strips (8, 9; 15, 17) of the shield (7) are stranded or wound in the same direction.

14. A cable as claimed in claim 13, **characterized in that** the two metal strips (8, 9; 15, 17) of the shield (7) are stranded or wound at the same angle.

15. The use of a cable as claimed in claim 1 for transmission rates of at least 100 Mbit/sec.